

Unit 8 Study Guide

Chapter 18

1. What is a **mass extinction**? What is the *sixth mass extinction*? Who's causing it?
2. Know the definitions of *endangered species*, *threatened species*, *near-threatened species*, and *least concern species*.
3. Be able to identify **characteristics** that cause certain species to be **vulnerable** to extinction.
4. Be able to explain the difference between *intrinsic* and *instrumental value*.
5. Know the multiple ways that diverse ecosystems help us.
6. What is **HIPPO**? What does it stand for and why does it matter?
7. Know the difference between *native species*, *nonnative species*, *alien species*, *exotic species*, and *invasive species*.
8. What is the **Lacey Act**?
9. What is **CITES**? What's the Red List?
10. Be familiar with the **Endangered Species Act**. Why is it so strong?
11. Be able to explain the difference between *species-approach* and *ecosystem-approach* when trying to conserve biodiversity.
12. What is *habitat fragmentation*?
13. What is **edge habitat** and how does it relate to **biosphere reserves**?

Chapter 19

14. Know the difference between *global change*, *global climate change*, and *global warming*.
15. Be able to describe the **greenhouse effect** in detail.
16. Know the *natural* and *anthropogenic* sources of the **major greenhouse gases**.
17. Be familiar with the differences between the major greenhouse gases (Page 669, 672).
18. Which of these also **destroys ozone** in the stratosphere?
19. What is the *dominant* greenhouse gas, yet *doesn't significantly contribute* to anthropogenic global warming?
20. Who or what is the **IPCC**?
21. What's the **trend** been for atmospheric CO₂ concentrations?
22. What's the **correlation** between CO₂ and mean global temperature?
23. Looking at the diagram on page 675, why does CO₂ have all those squiggles?
24. Study and be able to explain the various diagrams in Module 63 – what **conclusions** can be drawn?
25. What *areas of Earth* are experiencing the largest average annual temperature increases?
26. Be able to explain **positive** and **negative feedbacks** related to climate change.
27. What is **ocean acidification**?
28. Be very familiar with the *consequences of global climate change*.
29. What is happening to *polar ice*, *glaciers*, and *permafrost*? What's a **major concern of melting permafrost**?
30. Sea level is rising for **two reasons** – name them.
31. How is climate change affecting the *range of organisms*?
32. What impact does climate change have on *extreme weather*, *ocean currents*, *agriculture*, and *infectious diseases*?
33. What is the **Kyoto Protocol**?
34. What is the *only developed country* that has yet to ratify the Kyoto Protocol? *Why not*?
35. Be able to explain the IPCC assessment on page 692.
36. How could we **reduce CO₂ emissions**?
37. Be familiar with *carbon sequestration* and *carbon trading* as ways to reduce and manage CO₂ emissions.

Now go quiz yourself with the questions on pages **660-661, 698-699** and **727-729!**